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ARRANGEMENT FOR BEARING-SHIELD AND METHOD FOR USE OF THE SAME

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ABSTRACT

PROBLEM TO BE SOLVED: To improve the sealability by mounting the lips of a **seal** for preventing the leakage of lubricant in a **bearing** and a **seal** for preventing the entry of foreign matters into the **bearing** in the directions different from one another, and blowing the gas into space between these seals.

SOLUTION: A first **seal** 8b for preventing the leakage of a lubricant in a **bearing** and a second **seal** 8b for preventing the intrusion of foreign matters into the **bearing** are mounted on a side surface of a **bearing** casing 5 storing a rotary **shaft** 2 and the **bearing** 4 supporting the same. A **lip** of the first **seal** is directed to the inside of the **bearing** casing 5, a **lip** of the second **seal** is directed to the outside of the **bearing** casing 5, a spacer 10 is inserted between a space S formed between these two seals, and an gas piping 11 is connected into the space for blowing the dust cleaning and dehumidifying gas, for example, the air into the spaces. The pressure of the blow gas is within a range of positive pressure, and at most 0.03 MPa by the gauge pressure is preferred. Further it is sufficient that a flow rate of the gas per one zone is at most 20 NI/min.

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